

# Horowitz Emphasizes Commitment to Employment Equity

In his report to Senate last Friday, March, President Horowitz focused on the University's commitment to employment equity, outlining the numerous ways in which advances have been and will continue to be made.

Dr. Horowitz announced that he is forming a President's Committee on Human Resource Development which will advise and recommend on existing and new equity employment policies. Doris Badir, Equity Adviser, will chair the committee and members will include people from both staff associations, senior personnel officers, and other members of the University community. The President also told Senators that Professor Badir has agreed to an extension of her appointment until the summer of 1989, adding that he will recommend that the position be maintained beyond that date.

In describing the progress made in the area of equity, Dr. Horowitz outlined what he means when he says "greater fairness in employment". He told Senators that it is "equal pay for work which requires similar preparation and which makes similar demands; equal conditions of work for all individuals in a particular classification; and equal opportunities for advancement." Dr. Horowitz explained that during the last year the University has underlined its commitment to equity by agreeing to comply with the requirements of the Federal Government Employment Equity Act. Now, he says, "our scholars will be able to compete for federal contracts".

He pointed out that during the last several years the University has been working on a new classification system for

non-academic staff and this he says "will reflect the importance we place on employment equity". Dr. Horowitz added that decisions will be made during the next year so that in the spring of '89 "we shall adjust the salaries of those individuals who fill positions that should be upgraded". He pointed out that over a three year period a reserve of approximately \$1 million is being created which will make these adjustments possible.

Dr. Horowitz assured Senate that this commitment to equity in no way will impede academic quality. "Let me say as clearly as I know how that this University continues to strive for academic excellence. No-one need fear that our concern for equity will compromise the importance we place on our employing qualified individuals who advance on merit. We have no intention of requiring our units to

improve the representation of women (or, in a small number of places, of men) and disadvantaged persons at the expense of quality."

He emphasized that the University is determined to bring about a greater awareness on campus of the "potential of persons who may not have received appropriate attention". Dr. Horowitz added that we all must do whatever we can to provide the necessary support to enable people to contribute to the extent that they are capable.

He closed his report by stating that it is his desire that the University not only be considered a university that strives for excellence in teaching and research but also in employment and other aspects of equity. "I am proud," he said, "of what we have accomplished in recent years and I am determined that we shall achieve much more in the future". □

## C FOLIO

University of Alberta

17 March 1988

### No One-Night Stands for NSERC

A boardinghouse reach stands researchers in good stead when the Natural Sciences and Engineering Research Council (NSERC) slices its \$338 million pie.

"We run a set of programs that are ruthlessly competitive," says NSERC President Arthur May. The programs are budgeted on a people basis *not* on an institutional basis.

Dr. May; Leo Derikx, director of

NSERC's Targeted Research Programs; and Alan Frosst, a McMaster-University-based consultant to NSERC, addressed a 10 March workshop (Lister Hall) on university-industry research collaborations. Their comments were digested by 100 people from industry and associations and 30 academic staff members.

The mandate of the 10-year-old

organization (the programs it administers date back to 1917) is simply to promote and assist research, Dr. May stated, adding that NSERC's main focus is universities and self-directed research.

NSERC's current budget of \$338 million helps support 6,500 individual researchers at  
*Continued on page two*

### Chinese Journalist Pays Rare Visit

A top Chinese journalist, expelled twice from the Communist Party in China, will give two lectures here next week, says Dr. Jennifer Jay (East Asian Languages and Literatures).

Liu Binyan and his wife Zhu Hong will be on campus for three days, 21 to 23 March.

Mr. Lui gives his views on intellectual life in China since the death of Chairman Mao, 21 March, 10-4 Tory, 4 to 5:30 p.m.

He was first purged in 1957 as a "rightist". His work resurfaced in the West in 1979 with *People or Monsters*, a translation of his exposé of how a Party member accumulated more than a quarter of a million dollars by manipulative politics.

Mr. Liu was expelled a second time in January 1987, this time for "bourgeois liberalization."

His second lecture (23 March, B-1 Tory, 3:30 to 5 pm) will be on investigative journalism in China today. His reports into labor reform, party corruption, special privileges and abuses span more than three decades in China.

Also on 23 March, Zhu Hong talks about children's literature in China today, (L-4 Humanities, noon to 1 p.m.).

Lecture titles are tentative, warns Dr. Jay. □

### Old Arts Building Opens Anew

The official re-opening of the Arts Building will be celebrated Friday, 18 March, at 4 p.m.

Master of Ceremonies, Terry White, Dean of Arts, will preside over the program. Music will be provided from the console of the Convocation Hall organ; a commemorative plaque will be unveiled; University Professor Henry Kreisel will offer

"Reflections on the University"; and congratulations will be put forward by a number of notable Albertans.

After the ceremony, guided tours of the restored and renovated Arts Building will be offered.

Interested members of the University community are warmly invited to attend. □

### Contents

- McCallas for Gray, Kelly
- Techs out on show
- Harvard chemist for Sandin series



## Saturday Night Special Well Stocked

"Hey, Watch Me!" says the Department of Athletics, where sports will be coming out of the main gym's woodwork, Saturday, 26 March, at 7:30 p.m. Aerobics, weight lifting, akido, judo, wrestling, gymnastics, soccer, hockey, roller skating, even folk dancing, are some of the activities to which finely-trained athletes and just-for-fun hackers will apply themselves.

### NSERC *Continued from page one*

50 universities. As well, some 5,000 graduate students are granted stipends.

More than half of NSERC's money goes to 10 universities, including the University of Alberta.

In terms of university-industry funding, NSERC started in 1983-84 with a budget of \$6 million; the 1987-88 budget was \$26 million.

NSERC's objective is to capitalize on new scientific and technological advances, and a major way of doing this is to build on existing expertise at various universities. In partnership with universities, industry, and provincial governments, NSERC continues to establish industrial research Chairs. There was one Chair in 1983-84; in 1988 there are 55 and "there's no end in sight," Mr. Derikx said.

NSERC stipulates that each Chair holder be a full professor with an international reputation.

The University of British Columbia tops the list with seven Chairs; the University of Alberta ranks ninth with two Chairs, both in the Faculty of Agriculture and Forestry.

"We want to use our Chair program to build links that last. We're looking for long-term relationships and not many one-night stands," Dr. May said.

The distribution of Chairs across Canada is decidedly uneven, with 24 of the 55 Chairs being in Ontario. "Why should Memorial University in the industrial heartland of Newfoundland have three Chairs and the University of Alberta only two? Part of the reason is that two of Memorial's Chairs are being paid for by the University of Calgary, but that's another story," the NSERC leader said.

Asked about the range of cost regarding industry's support of a Chair, Dr. May said the minimum for "a decent Chair" is \$200,000 (half from the firm, half from NSERC) a year for five years. After that, there's an opportunity for renewal for another five years, at the outset of which the university is expected to help foot the bill.

There are no restrictions as to the

"This is unmitigated show-offery, a chance to show the world what we do and to show it with verve and enthusiasm," says Campus Recreation's Art Burgess of the two-hour cavalcade.

Various age groups will be represented and audience participation will be encouraged.

Admission is \$2 for adults, \$1 for children, and \$5 for families. □

number of companies supporting a Chair. One of the NSERC Chairs is supported by 20 firms; another Chair in development would be supported by 50 companies. And a professor can carry out research on a company's premises.

Might there be endowed Chairs? Not likely, in Dr. May's view. He reminded the group of the competitiveness of the programs, saying that this edge would be blunted if Chairs were funded for lengthy periods of time. NSERC is also chary about releasing money in advance of need because "we get hammered by the auditor general."

There are about 55,000 industrial companies in Canada, of which only 1,500 are engaged in research, Mr. Derikx explained. Of the 1,500, only 10 are major players. Very few medium- and small-sized companies are involved in our programs and we're working to change that, he said.

Bob Armit, director of Research Services, said that even though the University of Alberta works with companies throughout the world, it wants to develop more associations with smaller enterprises in Alberta. He impressed upon representatives of industry that "we've got the people to match you up with the various technologies on campus."

The University of Alberta enjoyed \$15.5 million in NSERC grants last year. Of the 1,700 academic staff about 800 qualify for NSERC funds, Mr. Armit noted.

Research Services expects something in the neighborhood of 30 to 40 technologies to emerge each year and be available for commercial exploitation, he said.

Case studies of NSERC-funded, university-industry collaborations were presented by Lawrence Wang (Zoology), Tony Craggs (Mechanical Engineering), Fernand Ellyin (Mechanical Engineering), and Steve Pawluk (Soil Science).

Does NSERC have any money left over at year end? In Dr. May's words, "We have a black hole into which all unused funds disappear." □

## Presidential Search Moves Ahead

At its meeting on 4 March, the Board of Governors approved the guidelines governing the workings and the formation of a Presidential Search Committee. The 16-member committee (the details of its composition and of the major search procedures are to be found in Section 102.1 of the GFC Policy Manual) will commence its meetings in the very near future.

Members of the committee are:

J.L. Schlosser - Chairman of the Board and Chairman of the Search Committee  
T.H. Miller - Chancellor  
J.A. Scott - Board of Governors  
M.C. Welsh - Board of Governors  
E. Kanasevich - Academic Staff  
A. Munn - Academic Staff  
D. O'ram - Academic Staff  
T. Christian - Deans' Council  
E.C. Lechelt - Chairmen's Council  
J.E. Bertie - AAS:UA  
T. Boston - Students' Union  
S.R.W. Twible - Students' Union  
M. Brown - Graduate Students' Association  
M. Lee - Senate  
B.P. O'Neill - Non-Academic Staff Association  
B. Kozoriz - Alumni Association

Administrative support for the Search Committee will be provided by the Office of the Board of Governors with the administrative director, P.A. Robison, as the Committee's Secretary. His office is in 3-31A University Hall (telephone 432-4954). □

## A Plague on the Gremlins

Most accidents happen a short distance from home. Such is often the case in proofreading. The penultimate line in a recent letter from W.F. Bowker concerning some historical details about General Faculties Council made mention of "Dr. John's History of the University of Alberta 1908-1969". It should, of course, have read "Dr. Johns's History . . ."

Folio apologizes to Dr. Bowker for the typographical error. □

# FOLIO

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### Deadlines:

**Notice of coming events:** 9 a.m. three weeks in advance of desired publication date.

**Classified advertisements:** 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

**Display advertisements:** 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

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*Folio* contents may be reprinted with acknowledgment.

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## Gift From Japan Foundation

Hina-sama dolls added an air of festivity to the recent donation of books from the Japan Foundation. Some 50 books will enhance the Department of East Asian Languages and Literatures collection. The donation includes a 13 volume bibliography of Buddhist text, anthologies of Kabuki plays and of modern Japanese Haiku, several major dictionaries and books relating to Japanese linguistics. The dolls, previously donated by the Kurimoto family, were borrowed from University Collections for the special occasion. Left to right, Mr. Nono Gaki, Consul-General of Japan; Brian Evans, Associate Vice-President (International Affairs); Sonja Arntzen, Chair, East Languages and Literatures; and Tom Powrie, Acting Dean of Arts.



## Bridge to Biotech

The McCalla Professorship year of Murray Gray, Chemical Engineering, will be devoted to developing research and teaching programs in the field of biotechnology. Dr. Gray will also pursue new research initiatives with the Biotechnology Department of the Alberta Research Council (ARC) and the Microbiology Department on campus.

Dr. Gray feels that the field of biotechnology is an active one and an important opportunity for the Faculty of Engineering. But he points out that there is "little emphasis on biotechnology" in current research in the Faculty. He plans on filling this gap through his activities with the President's Advisory Committee on Biotechnology and directly with organizations such as the ARC.

His research endeavor with the ARC's Biotechnology Department will make use of its soon-to-be completed Pilot Plant which provides a unique opportunity to meet our need for process engineering expertise and experimental research. Two graduate students will work on new fermentation processes designed to boost product yields without increasing operating costs. Dr. Gray will supervise these projects and will now be able to spend time at the ARC during the initial phases of the project.

Gray will also spend time on multidisciplinary initiatives undertaken with Microbiology and Civil Engineering—specifically, collaborative work on an industrial water treatment project and work underway on microbial desulfurization of oils and solubilization of coal.

He is also involved in two initiatives in teaching biotechnology. Dr. Gray has started to develop a biotechnology stream within chemical engineering which currently consists of a series of courses in biochemistry and microbiology, and the graduate course "Engineering Applications to Biotechnology". As well, the Microbiology and Genetics Departments have started a program in cell biotechnology and would like to offer students exposure to engineering techniques. Dr. Gray will use some McCalla time to further develop the curriculums in these courses.

Finally, Dr. Gray will continue his research, which according to him is "my longest running and most successful collaborative research project", with the Faculty of Pharmacy. By applying engineering principles to the metabolism of drugs by the liver, he and Y.K. Tam (Pharmacy) have provided important new insights and techniques. His relief from teaching responsibilities will give him the much needed time to become more familiar with background material from the life sciences.

Dr. Gray joined Chemical Engineering in 1983 after working for Shell Canada Resources as a gas engineer in process and project development. He received his undergraduate degree from the University of Toronto and his master's from the University of Calgary. Dr. Gray obtained his PhD in chemical engineering from the California Institute of Technology. □

## Mind of a Feminist

Mary Wollstonecraft was "England's first really prominent feminist writer," says Gary Kelly (English), who will spend his year as a McCalla Professor writing about this 18th century writer and philosopher.

There are several good biographies already in existence, says Dr. Kelly, a specialist in literature of the Age of Revolutions, but these have tended to focus more on her life and works. His *Mind of Mary Wollstonecraft* will examine the other philosophers and writers who influenced her thinking, the turbulent political period in which she wrote, and her struggles to find a literary style that worked for her.

Born in 1759, she grew up in an era of maturing political consciousness in Europe. "Newspapers and magazines had a very important role to play, as forms of public discourse dominated by the professional middle classes," comments Dr.

Kelly. Mary Wollstonecraft's goal, he says, was "to define the place of women in this struggle." The Wollstonecraft family's own middle class fortunes had slipped badly in her childhood, with her mother and sisters suffering most, as a result. In addition, as a woman writer in an age that saw the rise of a new reading public, her struggle "is of particular historical significance," he adds. "She moved from the acceptably feminine fields of education, fiction and belles lettres, to social history, politics and polemics."

Best known for her *Vindication of the Rights of Woman* (a response to the French Revolution's reform of national education which, however, still excluded women), she died in 1797, a few days after the birth of her daughter Mary.

Dr. Kelly describes his biography as the result of a "continuing engagement with issues of social change and literary history." He is the author of *The English Jacobin Novel 1780-1805*. □

## Senators Discuss 'Common First'

Among the items discussed at the 11 March Senate meeting held at Faculté Saint-Jean was a panel presentation on a suggestion from "Draft Policies: The Next Decade and Beyond" of a common first year of study.

Honorary degree recipients at spring convocation were announced, they are: Jennifer Dickson; Xinbai Huang; Mervyn J. Huston; The Hon. Mr. Justice G.V. LaForest; The Hon. Chief Justice

William K. Moore; John L. Schlosser; and Isabel Smith. Chancellor Tevie Miller also announced the recipients of honorary degrees to celebrate the 75th anniversaries of the Faculty of Medicine (Robert A. Macbeth and Lionel McLeod) and the Faculty of Engineering (George Ford and Egerton Warren King).

A full account of the 11 March Senate meeting will be published in the 24 March edition of *Folio*. □

# Open House Helps Celebrate Medicine's 75th Anniversary

What the future holds in store in the field of medicine is one of the thrusts of the Faculty of Medicine's 75th Anniversary Open House on Saturday, 19 March, from 10 a.m. to 4 p.m. The Open House takes place on the second floor of the Medical Sciences Building, 114 Street and 87 Avenue.

The theme—"Bench to Bedside"—will show how the basic sciences have contributed to medicine since the creation of the medical faculty 75 years ago. The Open House includes displays, demonstrations, films, and hands-on participation in a number of aspects of medical research. Medical faculty and students will give demonstrations and answer questions from the public.

Of particular interest are a demonstration of surgical reversal of diabetes through transplanting pancreatic cells; computer simulations of protein molecules; demonstrations of state-of-the-art techniques for cancer imaging; and Poison Pac, a program created by students in the health care Faculties to educate the public about common poisons. Tours of

the University Hospitals will also be conducted.

The day promises to be interesting and educational. For full

details about the Open House, telephone 432-6350. □

## 'Canadian Earth Sciences Into the 21st Century'

A Department of Geology-hosted symposium (25 March) will serve as a sounding board regarding the directions Canadian geoscience will take as we prepare to enter the 21st Century. The symposium will also celebrate the opening of the newly renovated Earth Sciences Building.

Invited speakers (see accompanying program) have been asked to address important issues in areas such as global change, resource geology and future directions in geological research. In the last few years, with the advent of the theory of plate tectonics, the geosciences have been through a period of revolution. The next few years promise to be just as exciting. Come hear the predictions!

Admission to the symposium is free and all members of the University and local Earth Science communities are invited to participate.

9:00-9:30 a.m.

Opening remarks by N.W. Rutter (Chairman of Geology)

9:30-10:30

M. Dence (Royal Society of Canada) - "Planet Earth in the 21st Century"

10:30-11:00

Coffee

11:00-12:00

D.K. Mustard (Geological Consultant, formerly with British Petroleum) - "The Challenge to Canada in the 21st Century"

12:00-1:30 p.m.

Lunch

1:30-2:30

P. Hoffman (Geological Survey of Canada) - "Field Geology in the 21st Century"

2:30-3:00

Coffee

3:00-4:00

A.J. Naldrett (University of Toronto) - "Mineral Resource Geology in the 21st Century"

4:00-5:00

D.F. Strong (Vice-President, Research, Memorial University) - "Petrology/Geochemistry in the 21st Century"

5:00-7:00

Wine and cheese reception

7:00-10:00

Dinner (Faculty Club)

Earth Sciences Auditorium, University of Alberta.

For further information and dinner tickets (\$21), call 432-3265 or 432-2740. □

## Latest FAB Show Brings "Techs" Out

There's an image of the "archetypal technician" in Art and Design, Jerzy Gawlak explains: part First Aid person, part trouble-shooter.

"We organized 'Technicalities' to give a fresh perspective on that archetype."

Just opened (15 March, FAB Gallery) Technicalities brings together an eclectic selection of art work from a dozen of Art and Design's 15 support staff, many of whom—like Gawlak—are working artists in their own right, with gallery exhibitions and

commissioned work to their credit.

Technicalities brings them together for the first time: sculptors like Blair Brennan and Marc Siegner; printmakers Brenda Petays and Steve Dixon; painters Dick Der, Dennis Yowney, Bernie Hippel; designers Roles, Asseltine and Kalkman; and John McGie, who works in ceramics.

Gawlak tips his hat on behalf of fellow artist-technicians to the Non-Academic Staff Association for its generous support of the show, which runs until 27 March. □

## Musical Theory on Stage

The Department of Music is hosting a national scholarly conference 18 to 20 March.

The keynote address (18 March, 9 a.m.) will be by William Benjamin, of the Music Department of the University of British Columbia. Dr. Benjamin is a composer and theorist with a very broad area of expertise. He has published numerous articles on tonal and non-tonal music theory. His address, "When Purposes

Cross: Structural Hearing and Compositional Sleight-of-Hand",

presents a critique of monotonal theories of modulation in tonal music by examining representative sonata movements of the Viennese classicists.

"This is the first such conference to take place in Canada, and promises a stimulating weekend of music theory," says Christopher Lewis, director of Academic Studies, Department of Music. □

University of Alberta  
Edmonton



THE RAYMOND U. LEMIEUX  
LECTURES ON BIOTECHNOLOGY

Second Lecture

## "A New Generation of Vaccines Based on Biotechnology"



Dr. Raymond U. Lemieux,  
F.R.S. University Professor

Dr. A.C. Allison

Vice-President for Research,  
Syntex Research  
Palo Alto, California

3:00 p.m. Friday,  
25 March 1988

Room HCL-1 Humanities Centre  
University of Alberta

To honour  
Dr. Lemieux for  
his contribution  
to Alberta's  
biotechnology  
industry.

Sponsored by  
Technology,  
Research and  
Telecommunications,  
Government of  
Alberta, and the  
Vice-President  
(Research)

Dr. Allison's research in the area of Immuno-regulation has led to two major avenues of development: the formulation of adjuvants to elicit cell-mediated immunity against antigens produced by recombinant DNA technology and peptide synthesis; and the role of cloned interleukin-1 varieties in the pathogenesis of inflammation and bone-cartilage erosion.

## Evans of Harvard to Deliver Sandin Lectures

David Evans, professor of chemistry at Harvard, is the invited speaker for the Reuben Benjamin Sandin Lecture Series, 28 to 30 March.

A member of the US National Academy of Sciences since 1984, Professor Evans is renowned for his ability to apply mechanistic analysis to development of new synthetic methodology for use in multistep chemical syntheses. He will deliver five lectures which the public are cordially invited to attend.

Monday, 28 March, his topics are "Auxiliary-based Asymmetric Synthesis" at 11 a.m., and "Directed Organic Reactions" at 5 p.m., in Chemistry V-Wing V1-07.

Professor Evans will talk on

"Asymmetric Synthesis of Ionophore Antibiotics" on Tuesday, 29 March, at 11 a.m. in Chemistry E1-60. In the afternoon his subject will be "New Approaches to the Synthesis of  $\beta$ -Lactam Antibiotics", 5 p.m., V-Wing V1-07.

The final lecture, "Synthesis of Peptide-derived Natural Products", will be delivered on Wednesday, 30 March, at 11 a.m. in V-Wing V1-07.

The Reuben Benjamin Sandin Lecture Series is an annual event, sponsored by the Department of Chemistry, and commemorates more than forty years of outstanding service to the University by Professor Reuben Sandin, a dedicated scholar and inspiring teacher of organic chemistry. □



### Campus Reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews (PACCR), the Department of Soil Science is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee on 28, 29 and 30 March 1988. In preparation for this second phase, PACCR invites written comment prior to 25 March 1988.

Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee. Submissions should be sent to: Mrs Shirley Moore, Coordinator, PACCR Office, W4-13 Chemistry Building. Attention: The Soil Science Unit Review Committee.

### Informal Reception for Terry White

Dean of Arts Terry White will be leaving the University at the end of this term to accept the presidency of Brock University. An informal reception in his honor will be held on Tuesday, 12 April, from 4 to 6 p.m. in the Upstairs Lounge of the Faculty Club. Colleagues and friends are invited to attend and bid Dr. White farewell and wish him success in his new position.

A small gift will be presented to mark the occasion. Anyone wishing to contribute should contact Fran Trehearne or Kathy Crowell at 432-4221.

### St. Joseph's College Academic Mass

Archbishop Joseph MacNeil will be the celebrant at the Academic Mass at St. Joseph's College Chapel at 4 p.m., 23 March. Friends of the College and members of the faculty of the University are cordially invited to attend. Academic dress is recommended for all faculty.

### Bookstore Inventory

The University Bookstore will be closed for year-end inventory 24, 25 and 26 March. The Bookstore will reopen on 28 March.

### Book Sale

The Library system is holding a book sale on 30 March. The sale will take place from 9 a.m. to 4 p.m. in the Norma Freifield Reserve Reading Room, 1-24 Cameron Library.

## Talks

### Mathematics

17 March, 4 p.m. J. Ritter, Universität Augsburg, "Conductors of Local Galois Characters." 657 Central Academic Building.

### Women's Studies

18 March, noon. Claire Harris will read from published and new work. L-3 Humanities Centre.

### International Centre

18 March, noon. Selknor Sergio Lacazo, Nicaraguan Ambassador to Canada, "The Central American Peace Plan: Its Implications for Peace in the Region." SUB Theatre.

21 March, noon. Steve Kidd, "The Northern Lights: What Are They?"

23 March, noon. Tang ShouBai, "Integrating Chinese Traditional and Western Medical Practices."

24 March, 12:30 p.m. Hossam Sharkawi, "A Trip to the West Bank" (slide presentation).

25 March, noon. Showing of the film, "Face of War" with a discussion to follow.

29 March, 12:30 p.m. Ananta Mainaly, "Agricultural Development in Rural Nepal."

30 March, noon. "People of No Interest"—a film with discussion to follow.

All events take place at the International Centre, 400 HUB International. 432-2692.

### Medical Microbiology and Infectious Diseases

18 March, 12:15 p.m. Gary Gray, "The Mechanisms of Chloroquine Resistance in *Plasmodium Falciparum*." 2J4.02 Mackenzie Health Sciences Centre.

### Plant Science

18 March, 12:30 p.m. G. Dunn, "Saltstress Effects on Plant Growth in Saline Soils." 1-06 Agriculture-Forestry Centre.

22 March, 12:30 p.m. R. Horton, "Grazing Management and Desert Encroachment in Africa." 1-06 Agriculture-Forestry Centre.

29 March, 12:30 p.m. A. Naeth, "Water Harvesting." 1-06 Agriculture-Forestry Centre.

### Sociology

18 March, 2 p.m. Clifford Clogg, Penn State University, "Association Models." 5-15 Tory Building.

23 March, noon. Yaang Zhao, Population Studies Center, Xi'an Jiaotong University, "China's History Since Liberation." 5-15 Tory Building.

### Secondary Education

18 March, 2 p.m. Terrance Carson and J.-C. Couture, "Collaborative Action Research: Experiences and Reflections." 122 Education South.

### Institute for Financial Research

18 March, 3 p.m. Lemma Senbet, University of Wisconsin, "Limited Liability, Corporate Leverage and Public Policy." 4-16 Business Building.

### Accounting

18 March, 3 p.m. Charlie Chi, University of Florida, "Using Accounting Information to Hedge Against Foreign Exchange Risk - An Evaluation of SFAS No. 8 and No. 52." 1-27 Business Building.

25 March, 3 p.m. Tavas Ahn, University of Texas at Austin, "Efficiency and Related Issues in Higher Education: A Data Envelopment Analysis Approach." 1-27 Business Building.

### Zoology

18 March, 3:30 p.m. Douglas Schemske, Department of Biology, University of Chicago, "Demographic Consequences of Plant/Animal Interactions for a Neotropical Herb." M-149 Biological Sciences Building.

25 March, 3:30 p.m. Bob Howarth, Department of Ecology and Systematics, Cornell University, "Nutrient Limitation in Aquatic Ecosystems: Why Are Marine Ecosystems Nitrogen Limited?" M-149 Biological Sciences Centre.

### Northern Biology

21 March, noon. Ian Stirling, "Behaviour of Fur Seals." B-121 Biological Sciences Centre.

28 March, noon. Ross Wein, "Dynamics of Fire in Taiga Conservation Areas." B-121 Biological Sciences Centre.

### Marketing and Economic Analysis

21 March, 2:30 p.m. Robert Ruekert, University of Minnesota, "The Sharing of Marketing Resources Across SBUs: The Impact of Strategic Context on Business Unit Performance." 4-16 Business Building.

22 March, 3:30 p.m. Terry Elrod, Vanderbilt University, "An Empirical Comparison of Mapping Methods on Scanner Panel Data." 4-16 Business Building.

### Economics

21 March, 3 p.m. C. Beach, Queen's University, "Immigrant Earnings Differentials and Cohort Effects in Canada." 8-22 Tory Building.

### CITL

21 March, 3 p.m. Patricia Browne and Maxine Crooks, "Teaching and Learning with Mature Students." TB-W2 Tory Building.

22 March, 2 p.m. Marilyn Dumont, John Korteum, Richard Price and Reinhold Rodrigues, "Native Students at the U of A: A Discussion." 121 Athabasca Hall.

23 March, 4 p.m. David Mappin and Norm McGinnis, "Is There Life After Plato?"—CAI Systems." 3-110 Education North.

24 March, 3 p.m. Graham J. Fishburne, "Peer Teaching Evaluation." TB-W2 Tory Building.

### Rural Economy

21 March, 3:15 p.m. Diane Dunlop, "A Spatial Equilibrium Model of the Canadian Grains Sector." 511 General Services Building.

### Religious Studies

21 March, 7:30 p.m. Satya V. Shastri, Shri Jagannath Sanskrit University, Puri, Orissa, "Modern Hindu Society." TB-W2 Tory Building.

22 March, 2 p.m. "The Concept of Time According to Bhartrhari." 1-83 Tory Building.

23 March, 3 p.m. "Christian Literature in Sanskrit." Arts Chamber.

28 March, 7:30 p.m. "Hindu Marriage" (with slides). TB-W2 Tory Building.

29 March, 2 p.m. "Death in the Upanishads." 1-83 Tory Building.

30 March, 3 p.m. "Maya and the Ethics of Hinduism." Arts Chamber.

### Pharmacy and Pharmaceutical Sciences

22 March, 4 p.m. Carol Repchinsky, director, Regional Drug Information Centre, Ottawa, "Regional Drug Information Services. 2031 Dentistry-Pharmacy Centre. Sponsored by the Upjohn Company of Canada.

### Population Research Laboratory

22 March, 4 p.m. Michael Wolfson, director, Social and Economic Studies Division, Statistics Canada, "Homemaker Pensions: How Much Will They Benefit Women?" TB-W2 Tory Building.

### Edmonton Map Society

22 March, 7:30 p.m. Tomislav Milinusic,



"Early Maps of Cyprus." 3-76 Tory Building.

## Rehabilitation Medicine

23 March, noon. Eugene Lechelt, "Visual Impairment: Perceptual Adjustments and Sensory Substitution Alternatives." 109 Corbett Hall Trailers.

## Forest Science

23 March, noon. Geoff Holroyd, Canadian Forestry Centre, and Mike Quinn, MSc candidate, "Conservation of the Blue Swallow (*Hirundo Atrocaerulea*) in Malawi, Africa." 4-1 Mechanical Engineering Building.  
24 March, 12:30 p.m. Beverly L. Driver, USDA Forest Service, Fort Collins, Colorado, "Measuring the Benefits of Amenity Goods and Services with Reference to USDA Forest Services Below Costs Timber Sales Controversy." 2-1 Mechanical Engineering Building.

## East Asian Interest Club

23 March, 3:30 p.m. Charles Burton, "1997: Hong Kong and Canada." L-1 Humanities Centre.

## Genetics

23 March, 4 p.m. Peter Moens, Department of Biology, York University, "Proteins and DNA of the Synaptonemal Complex." G-217 Biological Sciences Centre.  
30 March, 4 p.m. Alex Joyner, Department of Medical Genetics, University of Toronto, Mount Sinai Research Institute, "Do Mammalian Homeo-box Containing Genes Control Development?" 327 Earth Sciences Building.

## English

23 March, 4 p.m. Barry Isaac, University of Calgary, "Marvell's 'The Garden': Alchemy Redefined." L-2 Humanities Centre.  
24 March, 3:30 p.m. Sandra Djwa, Simon Fraser University, "Poetry, Politics, and the Imagination: On Writing The Biography of F.R. Scott." 5-20 Humanities Centre.

## Botany

23 March, 4 p.m. Rob Powell, "How Diffuse Knapweed's Monocarpic Perennial Life History Allows It to Persist With Three Insect Herbivores." M-149 Biological Sciences Building.  
30 March, 4 p.m. Greg Henry, "Ecology of Sedge Meadows of a Polar Oasis." M-149 Biological Sciences Centre.

## Applied Mathematics Institute

23 March, 4 p.m. L. Bruton, Dean of Engineering, University of Calgary, "On the Design of Multi-Dimensional Filter Systems." 357 Central Academic Building.

## Center for Advanced Study in Theoretical Psychology

24 March, 10 a.m. Kenneth J. Gergen, Swarthmore College, "On the Origins of Psychological Discourse."  
24 March, 2 p.m. Professor Gergen, "Narrative and the Intelligibility of Persons."  
25 March, 10 a.m. Professor Gergen, "The Plausibility of Mind-World Relationships." All three seminars in CW-410 Biological Sciences Centre.

## Chemistry

24 March, 11 a.m. J. Peak, "Chemiluminescence in Solution: Principles and Applications." 1-07 V-Wing

## Soil Science

24 March, 12:30 p.m. Monique Laliberte, research associate, Biotechnica Canada, Calgary, "Silage and Hay Inoculants." 2-36 Earth Sciences Building.  
31 March, 12:30 p.m. Norbert Berkowitz, "The Behaviour of Oxidized Coal in Soils." 2-36 Earth Sciences Building.

## Anthropology

24 March, 12:30 p.m. Gregory Forth, "Nagé Social Categories and Ideas Relating to Descent and Marriage Alliance: A Provisional Analysis Based on Incompleted Fieldwork in Eastern Indonesia." 14-6 Tory Building.  
24 March, 4 p.m. Glenn Griener, "Genetic Screening and the Liberal Tradition." 1-05 Business Building.  
29 March, 3:30 p.m. Jean-Guy Goulet, Athabasca University, "Identity Formation and Reincarnation in a Dene-Tha Community." 14-6 Tory Building.  
30 March, 12:30 p.m. Mary McDonald, "Old Age In Female Japanese Monkeys." 14-6 Tory Building.

## Classics

24 March, 3:30 p.m. R. Smith, "Cults and Political Power in the Archaic Period." 1-8 Humanities Centre.  
31 March, 3:30 p.m. A.M. Small, "Grain From Apulia." 1-8 Humanities Centre.

## Canadian Studies

24 March, 3:30 p.m. Sandra Djwa, Simon Fraser University, "Politics, Poetry and the Imagination: On the Writing of F.R. Scott's Biography." 5-20 Humanities Centre.

## Comparative Literature and Germanic Languages

24 March, 3:30 p.m. P. Coates, McGill University, "Totalitarianism and the Death of Silent Cinema (With Particular Reference to the Weimar Republic)." Senate Chamber, Arts Building.  
25 March, 10:30 a.m. P. Coates, "Ended Before it Began: Kafka, Wells and Powerlessness." Senate Chamber, Arts Building.

## Entomology

24 March, 4 p.m. J.V. Matthews, Geological Survey of Canada, "Late Tertiary Environments in Arctic Canada: Last Forests, Earliest Tundras." 2-35 Earth Sciences Building. Co-sponsors: Geology and Anthropology.  
31 March, 4 p.m. R.H. Gooding, "Tsetse, Trypanosomes and Travel: How I Spent My Winter Vacation." 2-35 Earth Sciences Building.

## Research Institute for Comparative Literature

24 March, 4 p.m. J-M Duciaume, "Roland Giguère: Graveur, peintre, poète, Et typographe." 2-28 Fine Arts Building. Co-sponsors: Arts and Design, Comparative Literature, English, Philosophy and Romance Languages.

## Library Science

24 March, 4:30 p.m. Gloria Strathern, "Alberta Newspaper Directory 1880-1982." 1-17B Rutherford South.

## Slavic and East European Studies

24 March, 7:30 p.m. Paul Coates, McGill University, "Polish Cinema of the Late 1970's and Early 1980's." Senate Chamber, Arts Building. Co-sponsor: Polish Culture Society.  
28 March, 3 p.m. John Fizer, Professor of Comparative Literature, Rutgers University, "The Kharkiv School of Criticism: Potebnia and the Potebnianists." 436 Arts Building.

## Cross Cancer Institute

24 March, 7:30 p.m. Beverley Edwards-Sawatzky, psychologist, Lousage Family Institute, "Cancer: A Family Affair." Auditorium, Cross Cancer Institute.

## Geology

25 March, 9 a.m. One-day seminar on "Canadian Geosciences in the 21st Century" to commemorate the opening of the newly renovated Earth Sciences Building. 432-3265.

## Canadian Institute of Ukrainian Studies

25 March, 7:30 p.m. Ivan Fizer, Department of Comparative Literature, Rutgers University, "Ukrainian 'Village Prose' of the 1980s." Heritage Lounge, Athabasca Hall.

## Law

26 March, 9:30 a.m. Saturday Morning at the Law School, "Landlords and Tenant." Law Centre.

## The Arts

## Exhibitions

## FAB Gallery

Until 27 March. "Technicalities: Works by the Technical Staff of the Department of Art and Design."

## Ring House Gallery

Until 27 March. "Beyond the Object"—10 artists present 28 innovative works which encourage contemplation of meaning and content. Curated by Brian Gladwell.

## McMullen Gallery

Until 31 March. "Heart to Art." 432-4211.

## Music

18 March, 8 p.m. Collegium Musicum—Mitchell Brauner, director.  
20 March, 3 p.m. Brass Chamber Music Concert—Students and Faculty.  
22 March, 5 p.m. Corey Hamm, piano (Junior Student Recital).  
22 March, 8 p.m. Timothy Hutchins, flute (Visiting Artist Series).  
23 March, 8 p.m. 3rd Annual "Reel Music" concert featuring Electroacoustic and New Music.  
24 March, 8 p.m. Tim Hankewich, piano (Junior Student Recital).  
25 March, 8 p.m. Patricia Stuckey, piano (Junior Student Recital).  
26 March, 10:30 a.m. Meet the Masters Series—Violin and Chamber Music Masterclass featuring Joseph Silverstein. Buchanan Hall, Alberta College.

26 March, 8 p.m. Darlene Schubert, soprano (Senior Student Recital).  
27 March, 3 p.m. The University of Alberta Concert Band—Fordyce Pier, conductor.  
27 March, 8 p.m. Michael Redshaw, piano—candidate for Doctor of Music degree in Applied Music (keyboard).  
28 March, 8 p.m. University of Alberta Stage Band featuring saxophone soloist P.J. Perry. Performances in Convocation Hall.

## SUB Theatre

19 March, 8 p.m. "Weeds."  
20 March, 8 p.m. "The Living Daylights."  
24 to 26 March. U of A Mixed Chorus Spring Concert. 433-4981.  
27 March, 8 p.m. "The Princess Bride."

## Positions

The University of Alberta is an equal opportunity employer.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

## Academic

### Family Sociology and/or Gender Relations Position, Department of Sociology

The Department of Sociology invites applications for a tenurable position in family sociology and/or gender relations at the junior Assistant Professor level, the appointment to be effective 1 July 1988. Applicants must have a completed PhD and preference will be given to those with teaching experience and publications.

The minimum salary for an Assistant Professor in 1988-89 is \$32,564.

Completed applications, including letter of application, curriculum vitae, transcripts of graduate work, recent reprints, and three confidential letters of reference sent directly to the Chair, must reach Dr. Gordon Fearn, Chair, Department of Sociology, University of Alberta, Edmonton, Alberta, T6G 2H4, by the deadline of 29 April 1988.

### David Peikoff Chair of Deafness Studies, Department of Educational Psychology

The David Peikoff Chair of Deafness Studies has been established within the Faculty of Education at the University of Alberta. The intent of this Chair is:

- to enhance the learning/study environment available to graduate students in the preparation program for teachers of the hearing impaired in the Department of Educational Psychology
- to provide colleagues in the University and community, interested in deafness and hearing impairment, with access to expertise in this field
- to undertake and sustain a major integrative research program which links research to educational/teaching needs of deaf and hard of hearing.

The Chairholder is expected to attain these intentions by conducting research and teaching at least one course per term. Persons applying for this Chair should be highly qualified professionals within their respective disciplines. Applicants should be eminent scholars and/or practitioners in any university discipline and must possess specialized knowledge related to and/or experience in deafness/hearing impairment.

Applications for the Chair should be submitted by 30 June 1988, and should include a proposal describing the academic and scholarly activities for the period of the appointment, as well as a curriculum vitae and the names and addresses of three referees. The period of appointment will be of fixed term for one to five years with the possibility of renewal upon application; the salary will be at the Full Professor rank (currently, the floor for this rank is \$50,630 per annum). The appointment will begin after 1 September 1988, at a mutually agreeable date to the appointee and the University of Alberta. Persons who are interested in applying for this Chair, but who will not be available until 1990, or later, are strongly encouraged to write a letter indicating such interest.

Applications should be forwarded to, and further information can be obtained from: Dr. E.W. Romaniuk, Chairman, Department of Educational Psychology, University of Alberta, 6-102 Education North, Edmonton, Alberta, Canada, T6G 2G5

### University Women's Club of Edmonton (Canadian Federation of University Women)

The University Women's Club of Edmonton is offering a \$1,000 academic award for women to be given in the spring of 1988.

The successful candidate will hold a bachelor's degree and will have completed successfully at least one term of graduate work leading to a master's or doctoral degree at the University of Alberta. The candidate must be a full-time student.

Academic excellence will be the major criterion, however need will be taken into account.

Application forms may be obtained from the Student Awards Office, 252 Athabasca Hall.

The competition closes 15 April 1988. The award will be announced no later than 13 May 1988.

Further information may be obtained from the Academic Awards Chairman, University Women's Club of Edmonton, 436-1328.

### Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 11 March. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

- Clerk Steno III, Faculty of Extension (Local Government Studies), (\$1,366-\$1,716)
- Clerk Steno III (Temporary), Economics, (\$1,366-\$1,716)
- Clerk Steno III Faculty of Extension (Business and Professional Area), (\$1,366-\$1,716)
- Clerk Typist III (Trust/Term to 23 September 1988), Alberta International, (\$1,366-\$1,716)
- Typist III, Faculty of Extension (Business and Professional Area), (\$1,366-\$1,716)
- Medical Steno (Trust), Faculty of Physical Education and Recreation (Glen Sather Sports Medicine Clinic), (\$1,522-\$1,945)
- Departmental/Executive Secretary (Term for one year), Pediatrics (\$1,716-\$2,208)

For vacant Library positions, telephone 432-3339.

## Advertisements

### Accommodations available

- Sale - Belgravia, four-bedroom semi.** \$105,000 plus a penny. This super country kitchen not for a loner. 452-2052 will get you the owner.
- Buying or selling a condominium -** Contact your south side condominium specialist, Willma Currah, Royal LePage, 433-9243 or 437-7480.
- Rent - One-bedroom, furnished, river valley view on University busline.** Walking distance. Available 1 May 1988 to 1 May 1989. \$550 negotiable. 482-1848.
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- Sale - Windsor Park.** Architecturally-designed, solidly-built, upgraded, 1,856' bungalow, on one-third acre. Finished basement. Three-car garage. \$175,900. Phone 433-2641 evenings.
- Bed and breakfast in our turn-of-the-century home** just minutes to the U of T and downtown. Rates from \$45. Ashleigh Heritage Home, Toronto, Ontario. Phone (416) 535-4000.
- Rent - Hearthstone executive condominium (Riverbend).** Furnished, three bedrooms, 2 1/2 baths, air conditioning. Available May for up to 16 months. \$900. No smoking, no pets. 434-9346.
- For rent - Executive, five-bedroom, 2,600' house on ravine, Westridge.** 1 July 1988-31 May 1989. References. Rent and furnishings negotiable. Phone 432-5338 or (evenings) 487-5273.
- Rent - July for 12 months, from professor on study leave:** four-bedroom bi-level, appliances, furniture negotiable, non-smokers. Near schools, bus, Southgate and Heritage Malls. 438-1103.
- Rent - Lovely river valley view, two-bedroom high-rise condominium.** Quiet building, close to Legislature. \$675. 478-4799 (leave message).
- Rent - Belgravia, ten-minute walk to University.** Two-bedroom bungalow with basement suite. Phone 433-4081.
- Sale - 1,280', three bedrooms, ten minutes University, basement developed.** Double heated garage. Appliances. 961-2568, 460-8998. \$84,900 or best offer.
- Sale - Riverbend. Four-bedroom, split-level home near ravine.** Large lot, double garage. Just listed. June possession. Liz Crockford, Spencer Realty, 436-5250.
- Sale - Lansdowne. Two storeys, fully developed with nice south backyard for pool.** Asking \$179,000. Double garage, sun room, excellent community close to University. Liz Crockford, Spencer Real Estate, 436-5250.
- Sale - Exceptional river view property.** Old Glenora location, 3,994 sq. ft. finished space, six bedrooms, family room, security, privacy, convenient to University. Liz Crockford, Spencer Real Estate, 436-5250. 434-0555 res.
- Sale - South west in Edmonton, acreage of 7.16 acres on which a 3,200 sq. ft. family home is sited.** Fenced for horses. Call Valerie Cload, Spencer Real Estate, 436-5250, 433-4720.
- Sale - Riverbend. Cozy bi-level.** Bus service to University, \$123,500. Well planned, two storeys, south back yard, \$149,900. Contemporary, two storeys, oak kitchen, \$229,000. Ann Dawrant, Spencer Real Estate, 436-5250, 430-6971.
- Sale - Grandview, 2,465', five bedrooms, two storeys, south-facing backyard.** Upgraded kitchen, generous windows for brightness. Close to University and schools. \$218,500. Evan Potter, Potter

- Realty, 434-2183, 435-1510.
- Sale - Grandview. Pretty Cape Cod, redecorated, bright, den, large kitchen, view across University Farm.** Close to school and playgrounds. Price \$174,800. Evan Potter, Potter Realty, 434-2183, 435-1510.
- Rent - Near University and hospital.** Bright, newer, three-bedroom bi-level. Five appliances, single garage, sundeck. Fully furnished. 1 May-1 September 1988. 998-3988.
- Sublet - University area.** Furnished bachelor suite. Available 1 May-30 August. \$325/month. 432-0596.
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- Sale - Belgravia. Contemporary, open-beam, brick/cedar home.** Three bedrooms, den, remodelled kitchen and baths, fenced south garden. Under \$200,000. Eleanor Duncan, Royal LePage, 438-4700, 434-7368.
- Sale - Allendale. Side-by-side duplex.** Two bedrooms, living room, dining/kitchen, four-piece bath, open basement, double garage, one title. \$109,000. Eleanor Duncan, Royal LePage, 438-4700, 434-7368.
- Sale - Grandview Drive. All brick, four-level split.** Four bedrooms, three baths, two fireplaces, air conditioned. Large living and dining rooms, south garden. \$224,000. Eleanor Duncan, Royal LePage, 438-4700, 434-7368.
- Sale - Westbrook-Aspen. Five bedrooms, two storeys, centre hall.** Family room with tyndstone fireplace, main floor laundry. \$165,000. Eleanor Duncan, Royal LePage, 438-4700, 434-7368.
- Sale - Large city lots. Some ravine.** \$39,750 up. Buy now, build later. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
- Sale - Garneau. New listing. Two-storey home with river valley view.** Hardwood floors. South yard. For details, call Chris Tenove, 433-5664, 436-5250. Spencer Realty.

### Accommodations wanted

- Reliable, mature, graduate student. Available to house-sit starting September 1988. For interview, phone Mary at 432-7805.
- Three-bedroom, furnished house to sublet, 2-3 months, beginning May or June in Millcreek or University area. Family uprooted during house renovation. Phone 433-9499, Nancy.
- Furnished house/apartment. Southwest side near University. Scientist, wife, teen-aged daughter. Non-smokers/drinkers. 1 September 1988-June 1989. (801) 225-7137 evenings, weekends. For references, call 432-4637, 436-3827.
- House-sitting. Keep your property safe and secure. Have a professional couple house-sit during your absence. For references, call 432-4291, 432-2969.

### Goods for sale

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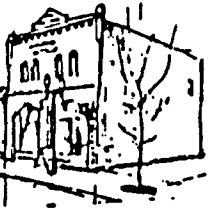
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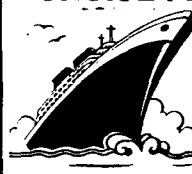
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